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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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cccacattc cattttaat atatacttg cttacaaat attataatat gttttaa 180
40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
tttgaatata tatttagttt ttaattgtg taggaaatc aaagccagag ggagtagaaa 300
caaaattgt gattttctaa atacttctg gctgcaggga agaaaccag tcccaggcga 360
45 agtcctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

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 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180
 aattcccaa accaatttc aaaaggnaaa ccaacnttc ccaaatggg aaagg 235

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 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtgggn gggggaacca atttaagggg ggggccccg 240

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt tactccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

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attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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15 gcaggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

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cggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120

15

aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180

gccaaccacc tttaacanc cccaangcg nggaagccat ttcttgg 227

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30

ggaagaattg tatgtgggag ttttaatgg tctcatttca ttggctataa ctcaattaca 180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240

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ggattaatta gacagcaaga cgcttgcggc cccttggcg cgaacgaacn ncgaaaagga 420
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 45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

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 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc ctccgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaacct gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnaccttnc 180

cantnnnctg gggncaccacn nnnngngaact gagagtggat ctgtgtacc tgacnnacca 240

20 gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga 300

ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540

30 tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancacctt tggtggcngc 600

agccnttaag ancactntt ttgggttgcg ctnttgatg aattacnaat agnntgtttt 660

35 gtncaaggc ccttctgcna aatatgaana aaagngcnct tagcttttg ngggaactgn 720

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caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

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<211> 515

<212> DNA

<213> Human

15 <400> 54

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgatgc tgggtgtcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tcccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aacc 515

35 <210> 55

<211> 176

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

40 agcctgcctt cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

<210> 56
 <211> 317
 45 <212> DNA
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<223> n is a, c, g, or t

<400> 56

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atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120

ggatttgggg tttagaggta caattgcctt tttatggta gagaaaggtc ctggggctgg 180

15

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300

acattgttat tgccatt

317

20

<210> 57

<211> 209

<212> DNA

25 <213> Human

<400> 57

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30

ctggactgga cactgtatac ccacatgcaa gatgaagttg gcccttaca tcctatacgc 120

aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180

taattgggag tgggggctga acaattcg

209

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<210> 58

<211> 262

<212> DNA

40 <213> Human

<400> 58

aattttgctg ttacatggtg gctcaactga gtccatact ttgaaggccg ggagttaatc 60

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acctgtcac cgagttgca accagcctcc aatatgtga acctgtact ctctaaaaat 120

•

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gaggggttga tggtgatca cactggtccg cctgggtgac 240
 5 agagcgagac tccatctcta at 262

<210> 59
 <211> 430
 10 <212> DNA
 <213> Human

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 15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120
 cccggggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggtttttata caaactggga acccactttt gaaaaattt ggccttttga 240
 tctgggatgg gaatatgagt ttatatacat ttcatcttct tttgggcaa aggcccgtt 300
 aagtattccc ccccgggggg cctttacaaa aaggcggtt taaaagctt ttgggcccc 360
 25 ctagggaatt gtttaacac ctaaaaacc ctgcttcct taaagggcg ttcttaatt 420
 tgggggcggc 430

30 <210> 60
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 atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
 40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180
 tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatact 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgat 300

taaagtgagg ggactctcct aattctgtga agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagttga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa cttctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 tttgttaaaa ttgatattt gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggagaggc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat atacttcctc ttcttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgccca 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

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<400> 64

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cattatcacc tctactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120

tatatttcaa atgtcttgc taaagtgggt actttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 <212> DNA
 5 <213> Human

 <400> 65
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 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
 <212> DNA
 <213> Human

 <400> 66
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 atagctagta aactccccct gt 142
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 35 <213> Human

 <400> 67
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 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctactgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcac tatTTtatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaT 179
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtt ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

 <210> 70
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 45 <212> DNA
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<223> n is a, c, g, or t

<400> 70

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10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180

15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300

20 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360

tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480

25 g 481

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30 <212> DNA

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 cacag 125

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 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
 <211> 500
 5 <212> DNA
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 <223> n is a, c, g, or t

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 20 <221> misc_feature
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 <223> n is a, c, g, or t

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 aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
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 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
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<213> Human

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<223> n is a, c, g, or t

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10 <221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

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25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

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tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

40 <211> 367

<212> DNA

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cgccatgaaa ttctgctcg attagcttac gttgttggga tagaggccaa acaaggctgt 180

45 tatcggtacg aggaatggat gttcgatttc gtagaatcgc cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattaccaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgttaa atagccgtta aatgtttta cccattcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttcttcctc 300
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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaacag 180
 taaggtattt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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 agggaggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120
 15 aggaaggaag gaagg 135

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 aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag 180
 35 aggggttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatc gagatggagc 240
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 40 taaaactttc ttgaacccc ctggcatagg ctgagttcc ctgact 346

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5 gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

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20 atgtaacagt gtggggtttc a 201

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35 ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccaccttct cattagttaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300

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40 ttcttctaag cgtagcgcgt ctactccaat gtttcgta atccagccc aactaacgcc 420

gcgaggaggt cgaaccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctcccg gacgcccctt ttaaccatt ctctctatct 480
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 aaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 cttaaccccc gggtttttgg gttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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332

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccttgctagn tancngnggg 180
30 ttttctctta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgcn 240
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 atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180
 40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

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 45 tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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30 gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggt 180
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